DOCUMENT RESUME

ED 450 109 SP 039 785

TITLE	The Jossey-Bass Reader on Technology and Learning. The Jossey-Bass Education Series.
ISBN	ISBN-0-7879-5282-6
PUB DATE	2000-00-00
NOTE	341p.; Introduction by Roy D. Pea.
AVAILABLE FROM	Jossey-Bass, Inc., 350 Sansome Street, San Francisco, CA 94014 ($25). Tel: 888-378-2537; Fax: 800-605-2665; Web site: http://www.josseybass.com.
PUB TYPE	Books (010) -- Collected Works - General (020)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	Academic Standards; Access to Education; Computer Literacy; *Computer Uses in Education; Educational Change; *Educational Technology; Elementary Secondary Education; Equal Education; Females; Higher Education; Internet; Learning Disabilities; National Standards; Science Education; Scores; Sex Differences; Teaching Methods; Womens Education

ABSTRACT

This collection of papers includes: "Introduction" (Roy D. Pea); (1) "Summary of Findings and Recommendations from the Report to the President on the Use of Technology to Strengthen K-12 Education in the United States" (President's Committee of Advisors on Science and Technology, Panel on Educational Technology); (2) "National Educational Technology Standards for Students" (International Society for Technology in Education); (3) "New Technology Standards for Teachers" (California Commission on Teacher Credentialing); (4) "Excerpts from Long- Range Plan for Technology, 1996-2010" (State Board of Education, Texas); (5) "Challenges of Creating a Nation of Technology-Enabled Schools" (Thomas K. Glennan and Arthur Melmed); (6) "Internet Use by Teachers" (Henry Jay Becker); (7) "The Link to Higher Scores" (Jeff Archer); (8) "The Digital Divide" (Don Tapscott); (9) "Should We Be Worried? What the Research Says about Gender Differences in Access, Use, Attitudes, and Achievement with Computers" (Heather Kirkpatrick and Larry Cuban); (10) "Girl Games and Technological Desire" (Cornelia Brunner, Dorothy T. Bennett, and Margaret Honey); (11) "Rethinking How to Invest in Technology" (Chris Dede); (12) "The World's the Limit in the Virtual High School" (Sheldon Berman and Robert Tinker); (13) "Computer Technology, Science Education, and Students with Learning Disabilities" (David Kumar and Cynthia L. Wilson); (14) "The Computer Doesn't Embarrass Me" (Ted S. Hasselbring, Laura Goin, Rose Taylor, Brian Bottge, and Patrick Daley); (15) "Digital Literacy" (Paul Gilster); (16) "Computers and Computer Cultures" (Seymour Papert); (17) "Teaching by Machine" (David Tyack and Larry Cuban); (18) "The Evolution of Instruction in Technology-Rich Classrooms" (Judith Haymore Sandholtz, Cathy Ringstaff, and David C. Dwyer); (19) "Redefining Computer Appropriation: A Five-Year Study of ACOT Students" (Robert J. Tierney); (20) "Some New Gods that Fail" (Neil Postman); (21) "Computer Mini-School: Technology Builds Community" (Andrea R. Gooden); (22) "Engaging Students in a Knowledge Society" (Marlene Scardamalia and Carl Bereiter); and (23) "Using Technology to Support Innovative Assessment" (Karen Sheingold and John Frederiksen). (Most papers contain references.) (SM)

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